

# Li-SOCl<sub>2</sub> product range

High energy, high voltage, long life, wide temperature

## Lithium-thionyl chloride (Li-SOCl<sub>2</sub>) batteries from Saft

- Bobbin or spiral operating voltage: 3.6 V
- Lowest self-discharge for extended operating life
- Well controlled passivation
- Operating temperature: - 60°C to + 150°C
- LS cells compliant with IEC60079-11 Intrinsic Safety for ATEX applications
- Non-flammable electrolyte
- Excellent resistance to corrosion
- Low magnetic signature

Bobbin LS cells are designed specifically for long-term (5 to 20+ years) applications, featuring a few µA base currents and periodic pulses, typically in the 5-150 mA range.

Spiral LSH cells are designed for applications requiring continuous currents in the 0.1-1.8 A range, with superimposed pulses as high as 4 A.

	ENERGY						POWER			HIGH TEMPERATURE	
	LS 14250	LS 14500	LS 17330	LS 17500	LS 26500	LS 33600	LSH 14 Light	LSH 14	LSH 20	LSH 20-HTS	LSH 20-150
<b>Cell size</b>	1/2 AA	AA	2/3 A	A	C	D	C	C	D	D	D
<b>Cell construction</b>	Bobbin	Bobbin	Bobbin	Bobbin	Bobbin	Bobbin	Spiral	Spiral	Spiral	Spiral	Spiral
<b>Nominal voltage</b>	3.6 V	3.6 V	3.6 V	3.6 V	3.6 V	3.6 V	3.6 V	3.6 V	3.6 V	3.6 V	3.6 V
<b>Nominal capacity</b>	1.2 Ah	2.6 Ah	2.1 Ah	3.6 Ah	7.7 Ah	17.0 Ah	3.6 Ah	5.8 Ah	13.0 Ah	11.0 Ah	14.0 Ah
<b>Max. continuous current</b>	35 mA	50 mA	25 mA	100 mA	150 mA	250 mA	1.3 A	1.3 A	1.8 A	1.0 A	300 mA
<b>Max. pulse discharge rate</b>	0.1 A	0.25 A	0.12 A	0.25 A	0.3 A	0.4 A	2.0 A	2.0 A	4.0 A	3.0 A	0.5 A
<b>Max. outside diameter</b>	14.55 mm	14.55 mm	16.5 mm	17.13 mm	26.0 mm	33.4 mm	26.0 mm	26.0 mm	33.4 mm	33.4 mm	32.05 mm
<b>Max. height</b>	25.15 mm	50.3 mm	33.4 mm	50.9 mm	50.4 mm	61.6 mm	50.4 mm	50.4 mm	61.6 mm	61.6 mm	61.7 mm
<b>Typical weight</b>	8.9 g	16.7 g	14.4 g	21.9 g	48 g	90 g	51 g	51 g	100 g	100 g	104.5 g
<b>Operating temperature range</b>	- 60 / + 85°C	- 60 / + 85°C	- 60 / + 85°C	- 60 / + 85°C	- 60 / + 85°C	- 60 / + 85°C	- 60 / + 85°C	- 60 / + 85°C	- 60 / + 85°C	- 60 / + 85°C	- 40 / + 150°C

Typical values relative to cells stored for one year or less at + 30°C max ; Performances vary according to discharge characteristics (current, duration, frequency), temperature conditions, storage conditions prior to usage and applications acceptable minimum voltage.



- Specific LS-W range designed specifically for applications with widely fluctuating temperatures over short period of time. Available in 1/2AA and AA bobbin configurations.
- Specific LS-Ex range with optimised performances for ATEX applications. Available in AA bobbin configuration.

Unrivalled performances in long-life applications for our LS series  
 Superior reliability in demanding environments  
 Safe and reliable operations up to + 150°C for our LSH series